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Earthquake Shaking — Green Alert

GSN USAID FROM THE AMERICAN PEOPLE
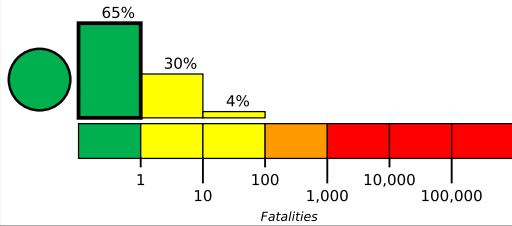
ANSS

PAGER
Version 6

M 5.7, 19 km S of Prgos, Greece

Origin Time: 2021-12-29 05:08:09 UTC (Wed 07:08:09 local)
Location: 34.8334° N 25.1386° E Depth: 64.5 km

Created: 4 weeks, 0 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
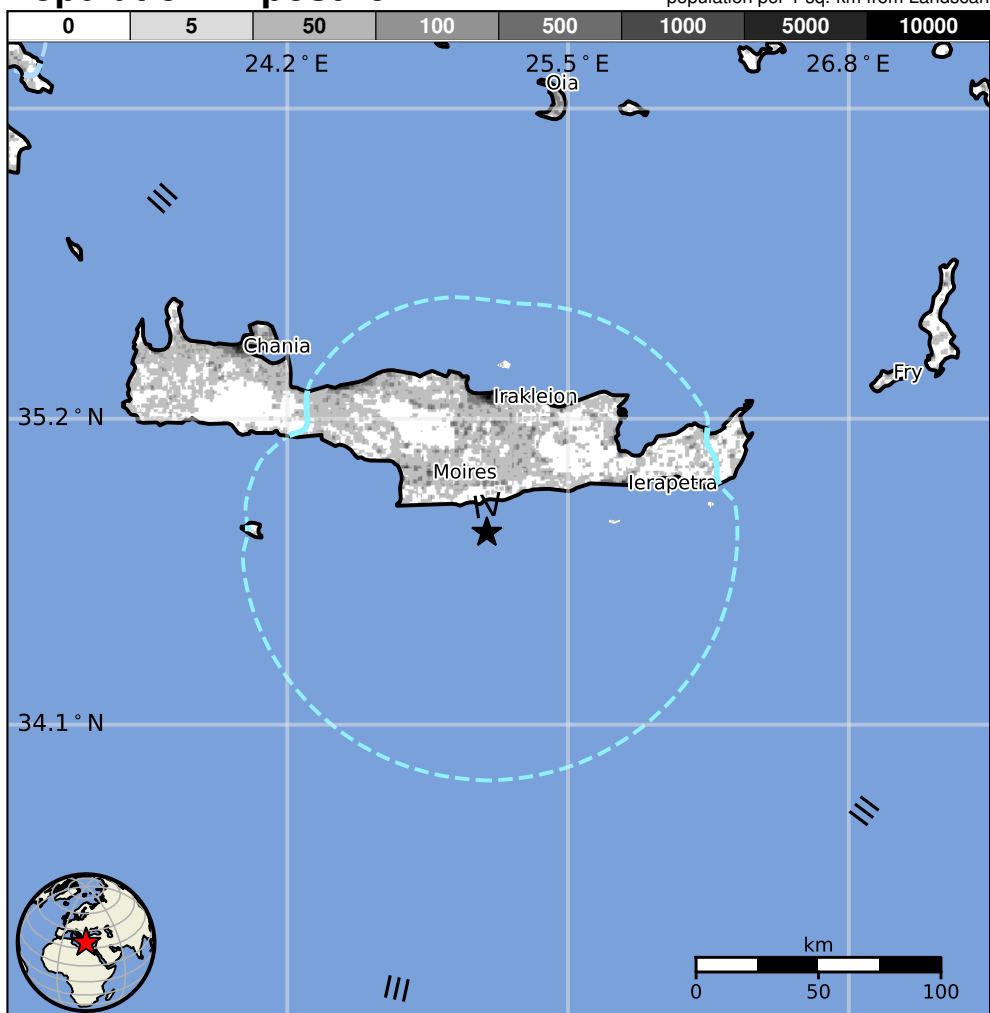
65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	190k*	456k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block and dressed stone/block masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1986-09-13	363	5.9	VIII(4k)	21
2005-10-20	395	5.8	VIII(4k)	0
1999-09-07	387	6.0	IX(10k)	143

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Moires**	**6k**
IV	Agia Varvara	2k
IV	Arkalochori	4k
IV	Asimion	1k
IV	Zaros	2k
IV	Tympaki	5k
IV	**Ierapetra**	**12k**
IV	Gazi	13k
IV	**Irakleion**	**137k**
IV	Rethymno	32k
III	**Chania**	**54k**

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000gg0y#pager

Event ID: us6000gg0y